Title (en)

COMPACT AERO-THERMO MODEL BASED ENGINE MATERIAL TEMPERATURE CONTROL

Title (de)

AUF KOMPAKTEM AEROTHERMOMODELL BASIERENDE TEMPERATURREGELUNG FÜR MOTORMATERIAL

Title (fr)

COMMANDE DE TEMPÉRATURE DE MATIÈRE DE MOTEUR BASÉE SUR MODÈLE COMPACT AÉRO-THERMO

Publication

EP 2972605 A1 20160120 (EN)

Application

EP 14763322 A 20140314

Priority

- US 201361800440 P 20130315
- US 2014027979 W 20140314

Abstract (en)

[origin: WO2014143707A1] Systems and methods for controlling a fluid based engineering system are disclosed. The systems and methods may include a model processor for generating a model output, the model processor including a set state module for setting dynamic states of the model processor, the dynamic states input to an open loop model based on the model operating mode. The model processor may include an input object for processing model input and setting a model operating mode, the model operating mode being a starting mode if the model input is within a data range associated with a starting operation of the control device. The model processor may further include an estimate state module for determining an estimated state of the model based on a prior state model output and the current state model of the open loop model.

IPC 8 full level

G05B 13/04 (2006.01); **G05B 23/02** (2006.01)

CPC (source: EP US)

F01D 21/003 (2013.01 - US); **F02C 3/04** (2013.01 - US); **F02C 7/26** (2013.01 - US); **F02C 9/16** (2013.01 - US); **F02C 9/20** (2013.01 - US); **F04D 29/321** (2013.01 - US); **F04D 29/325** (2013.01 - US); **G05B 13/04** (2013.01 - US); **G05B 17/02** (2013.01 - EP US); **G05B 23/0254** (2013.01 - US); **G05D 7/0629** (2013.01 - US); F05D 2220/32 (2013.01 - US); F05D 2240/35 (2013.01 - US); F05D 2260/81 (2013.01 - US); F05D 2260/85 (2013.01 - US)

Designated contracting state (EPC)

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